

Figure 1A

	1				50
L-PBE_Canine	MAEYTRLHNA	LALIRLRNPP	VNAISTAVLR	GIKDGQLQKAT	TDRTVKAIVL
L-PBE_Human	MAEYTRLHNA	LALIRLRNPP	VNAISTTLLR	DIKEGLQKAG	RDHTIKAIVI
L-PBE_Mouse	MAEYLRLPHS	LAMIRLCNPP	VNAISPTVIT	EVNRGLQKAS	LDHTVRAIVI
L-PBE_Rat	MAEYLRLPHS	LAMIRLCNPP	VNAVSPVIR	EVNRGLQKAG	SDHTVKAIVI
	51				100
L-PBE_Canine	CGADGKFSAG	ADIHSFGEP	KSDFVLGHIV	DEIQRTEKPV	VAAIQGLALG
L-PBE_Human	CGAEGKFSAG	ADIRGFSAPR	TFGLILGHVV	DEIQRNEKPV	VAAIQGMAFG
L-PBE_Mouse	CGANDNFCAG	ADIHGFKSPT	.GLTLGSLV	DEIQRYQKPV	VAAIQGVALG
L-PBE_Rat	CGANGNFCAG	ADIHGFSAPT	P.GLALGSLV	DEIQRYQKPV	LAATQGVALG
	101				150
L-PBE_Canine	GGLELALGCH	YRIAHAEAQI	GFPEVTLGIL	PGARGTQLLP	RLIGVPAALD
L-PBE_Human	GGLELALGCH	YRIAHADAQV	GLPEVTLGLL	PGARGTQLLP	RLTGVPAAALD
L-PBE_Mouse	GGLELALGCH	YRIANAKARV	GFPEVMLGIL	PGARGTQLLP	RVVGVPPVALD
L-PBE_Rat	GGLELALGCH	YRIANAKARV	GLPEVTLGIL	PGARGTQLLP	RVVGVPPVALD
	151				200
L-PBE_Canine	LITSGRHVLA	DEALKLGILD	EIVNSDPVEE	AIKLAQRISD	QSLESRRRLCN
L-PBE_Human	LITSGRRILA	DEALKLGILD	KVNSDPVEE	AIRFAQRVSD	QPLESRRRLCN
L-PBE_Mouse	LITSGRHIST	DEALKLGILD	VVVKSDPVEE	AIKFAQTVIG	KPIEPRRILN
L-PBE_Rat	LITSGKYLSA	DEALRLGILD	AVVKSDPVEE	AIKFAQKIID	KPIEPRRIFN
	201				250
L-PBE_Canine	KPIQSLPNME	SIFSEALSKM	QKQHPGCLAP	ETCVRVAVQAA	VHCPYEVGIIQ
L-PBE_Human	KPIQSLPNMD	SIFSEALLKM	RRQHPGCLAQ	EACVRVAVQAA	VQYPYEVGIK
L-PBE_Mouse	KPVPSLPNMD	SVFAEAIKAV	RKQYPGRLAP	ETCVRSVQAS	VKHYPYEVAIK
L-PBE_Rat	KPVPSLPNMD	SVFAEAIKAV	RKQYPGVLAP	ETCVRSIQAS	VKHYPYEVGIK
	251				300
L-PBE_Canine	KEKELFMYLQ	KSGQARALQY	AFFAERNATK	WSTPSGASWK	TAIAQPISSV
L-PBE_Human	KEEELFLYLL	QSGQARALQY	AFFAERKANK	WSTPSGASWK	TASARPVSSV
L-PBE_Mouse	EEAKLFMYLR	GSGQARALQY	AFFAEKSANK	WSTPSGASWK	TASAQPVSSV
L-PBE_Rat	EEEKLFMYLR	ASGQAKALQY	AFFAEKSANK	WSTPSGASWK	TASAQPVSSV
	301				350
L-PBE_Canine	GVVGLGTMGR	GIVVSLAKAK	IPVIAVESDK	KQLETADMII	TTLLEKEASK
L-PBE_Human	GVVGLGTMGR	GIVISFARAR	IPVIGVDSK	NQLATANKMI	TSVLEKEASK
L-PBE_Mouse	GVLGLGTMGR	GIAISFARVG	IPVVAVESDP	KQLDTAKKII	TSTLEKEAS.
L-PBE_Rat	GVLGLGTMGR	GIAISFARVG	ISVVAVESDP	KQLDAAKKII	TFTLEKEASR
	351				400
L-PBE_Canine	MQRSSHPSLG	PKPRLTSMK	ELGGVDLVIE	AVFEEINLKK	RVFAELSAIC
L-PBE_Human	MQQSGHPWSG	PKPRLTSSVK	ELGGVDLVIE	AVFEEMSLKK	QVFAELSAVC
L-PBE_Mouse	.K.SGQASAK	PNLRFSSSTK	ELSSVDLVIE	AVFEDMNLKK	KVFAELSALC
L-PBE_Rat	AHQNGQASAK	PKLRFSSSTK	ELSTVDLVVE	AVFEDMNLKK	KVFAELSALC
	401				450
L-PBE_Canine	KPEAFLECTNT	SALDIDEIAS	STDRPHLVIG	THFFSPAIVM	KLLEIIPSQY
L-PBE_Human	KPEAFLECTNT	SALDVDEIAS	STDRPHLVIG	THFFSPAIVM	KLLEIIPSQY
L-PBE_Mouse	KPGAFLCTNT	SALDVDDIAS	STDRPQLVIG	THFFSPAIVM	RLLEVIPTSY
L-PBE_Rat	KPGAFLCTNT	SALNVDDIAS	STDRPQLVIG	THFFSPAIVM	RLLEVIPTSY
	451				500
L-PBE_Canine	SSPTTIATVM	NLSKKIKKIG	VVVGNCYGFV	GNRMLKPYYN	QTYFLLEEGS
L-PBE_Human	SSPTTIATVM	NLSKKIKKIG	VVVGNCYGFV	GNRMLNPYYN	QAYFLLEEGS
L-PBE_Mouse	SSPTTIATVM	SLSKRIGKIG	VVVGNCYGFV	GNRMLAPYYN	QGYFLLEEGS
L-PBE_Rat	SSPTTIATVM	SLSKKIKKIG	VVVGNCYGFV	GNRMLAPYYN	QGFFLLEEGS
	501				550
L-PBE_Canine	RPEEIDQVLE	EFGFKMGPF	VSDLAGLDVG	WKSRRGQGLT	GPMVPSGTPA
L-PBE_Human	KPEEVDQVLE	EFGFKMGPF	VSDLAGLDVG	WKSRRGQGLT	GPTLLPGTPA
L-PBE_Mouse	KPEDVDGVLE	EFGFRMGPF	VSDLAGLDVG	WVKRKGQGLT	GPSLPPGTPT
L-PBE_Rat	KPEDVDGVLE	EFGFKMGPF	VSDLAGLDVG	WKIRKGQGLT	GPSLPPGTPT
	551				600
L-PBE_Canine	RKRGNRRYCP	IPDLLCESGR	FGQKTGKGWY	QYDKPLGRIH	KPDPWLSEFL
L-PBE_Human	RKRGNRRYCP	IPDVLCELGR	FGQKTGKGWY	QYDKPLGRIH	KPDPWLSTFL
L-PBE_Mouse	RKRGNTRYSP	IADMLCEAGR	FGQKTGKGWY	QYDKPLGRIH	KPDPWLSEFL
L-PBE_Rat	RKRGNTRYSP	LGDMLEAGR	FGQKTGKGWY	QYDKPLGRIH	KPDPWLSTFL

Figure 1B

	601				650
L-PBE_Canine	SQYRKTYHIE	PRIISQDEIL	ERCLYSLINE	AFRILGEGMA	ADPEHIDVVY
L-PBE_Human	SRYRKPHHIE	PRTISQDEIL	ERCLYSLINE	AFRILGEGIA	ASPEHIDVVY
L-PBE_Mouse	SQYRETHHIK	QRSISKEEIL	ERCLYSLINE	AFRILEEGMA	ASPEHIDVIY
L-PBE_Rat	SQYREVHHIE	QRTISKEEIL	ERCLYSLINE	AFRILEEGMA	ARPEHIDVIY
	651				700
L-PBE_Canine	LHGYGWPRHR	GGPMFYASTV	GLPTVLEKLQ	KYYRQNPDI	QLEPCDYLKK
L-PBE_Human	LHGYGCARHK	GGPMFYASTV	GLPTVLEKLQ	KYYRQNPDI	QLEPSDYLKK
L-PBE_Mouse	LHGYGWPRHV	GGPMYYAASV	GLPTVLEKLQ	KYYRQNPDI	QLEPSDYLRR
L-PBE_Rat	LHGYGWPRHK	GGPMFYAASV	GLPTVLEKLQ	KYYRQNPDI	QLEPSDYLRR
	701		723		
L-PBE_Canine	LASLGNPPLK	EWQSLAGSPS	SKL		
L-PBE_Human	LASQGNPPLK	EWQSLAGSPS	SKL		
L-PBE_Mouse	LVAQGSPPPLK	EWQSLAGPHS	SKL		
L-PBE_Rat	LVAQGSPPPLK	EWQSLAGPHG	SKL		

Figure 2A

	1				50
L-PBE_Canine	ATGGCCGAGT	ATACGCGGCT	GCACAACGCC	TTGGCGTTGA	TCCGCCTCCG
L-PBE_Human	ATGGCCGAGT	ATACGCGGCT	GCACAACGCC	TTGGCGCTAA	TCCGCCTCCG
L-PBE_Mouse	ATGGCTGAGT	ATCTGAGGCT	GCCCCACTCC	CTGGCTATGA	TCCGCCTCTG
L-PBE_Rat	ATGGCTGAGT	ATCTGAGGCT	GCCCCACTCC	CTGGCGATGA	TCCGCCTCTG
	51				100
L-PBE_Canine	AAACCCGCCG	GTCAACGCCA	TCAGTACGGC	TGTACTCCGT	GGAATAAAAG
L-PBE_Human	AAACCCGCCG	GTCAACGCCA	TCAGTACGAC	TTTACTCCGT	GATATAAAAG
L-PBE_Mouse	CAATCCACCG	GTCAATGCCA	TCAGTCCAAC	TGTAATCACA	GAAGTAAGGA
L-PBE_Rat	CAACCCGCCA	GTCAACGCCG	TCAGTCCAAC	TGTAATCAGG	GAAGTAAGAA
	101				150
L-PBE_Canine	ACGGATTGCA	GAAAGCTACC	ACAGACCGTA	CAGTAAAAGC	TATTGTGCTT
L-PBE_Human	AAGGACTACA	GAAAGCTGGA	AGAGACCATA	CAATAAAAGC	CATTGTGATT
L-PBE_Mouse	ATGGACTCCA	GAAAGCTAGT	TTGGACCATA	CGGTTAGAGC	CATAGTGATC
L-PBE_Rat	ATGGACTCCA	GAAAGCTGGA	TCAGACCACA	CGGTAAAAGC	CATTGTGATC
	151				200
L-PBE_Canine	TGCGGAGCAG	ATGGCAAATT	CTCTGCAGGT	GCTGATATCC	ACAGCTTTGG
L-PBE_Human	TGTGGAGCAG	AGGGCAAATT	TTCTGCAGGT	GCTGATATTC	GTGGCTTCAG
L-PBE_Mouse	TGTGGAGCAA	ATGACAACTT	CTGTGCAGGT	GCTGATATCC	ATGGCTTTA.
L-PBE_Rat	TGTGGCGCAA	ACGGAAACTT	CTGTGCAGGT	GCTGATATCC	ATGGCTTTAG
	201				250
L-PBE_Canine	TGAGCCGAGA	AAGTCTGACT	TTGTACTAGG	ACATATAGTA	GATGAAATAC
L-PBE_Human	TGCTCCTAGG	ACATTTGGCC	TTTACTGTTG	ACATGTAGTA	GATGAAATAC
L-PBE_Mouse	..AATCTCCC	A...CTGGCC	TTACATTAGG	AAGCTTGGTA	GATGAAATAC
L-PBE_Rat	TGCTTTTACC	C...CTGGCC	TTGCATTAGG	AAGCTTGGTA	GATGAAATAC
	251				300
L-PBE_Canine	AGAGAACTGA	GAAGCCCGTG	GTGGCAGCTA	TTCAAGGCCT	GGCTTTTAGGA
L-PBE_Human	AGAGAAATGA	GAAGCCCGTG	GTGGCAGCAA	TCCAAGGCAT	GGCTTTTCGGA
L-PBE_Mouse	AGCGATACCA	GAAGCCAGTG	GTGGCCGCCA	TCCAAGGCGT	GGCTCTTGGA
L-PBE_Rat	AGAGATACCA	GAAGCCGGTG	TTGGCCGCTA	TCCAAGGTGT	GGCTCTCGGA
	301				350
L-PBE_Canine	GGGGGACTGG	AGCTGGCGCT	GGGCTGTCAC	TATAGGATTG	CTCATGCAGA
L-PBE_Human	GGGGGACTAG	AGCTGGCCCT	GGGCTGTCAC	TATAGGATTG	CCCACGCAGA
L-PBE_Mouse	GGAGGACTAG	AGCTGGCCTT	GGGCTGTCAC	TATCGGATTG	CCAATGCAAA
L-PBE_Rat	GGAGGACTGG	AGCTGGCCTT	GGGCTGTCAC	TATCGGATTG	CCAATGCAAA
	351				400
L-PBE_Canine	GGCTCAAATT	GGCTTCCCAG	AAGTCACACT	AGGAATCCTT	CCTGGTGCAA
L-PBE_Human	CGCTCAAGTT	GGCTTACCAG	AAGTTACACT	TGGACTTCTC	CCTGGTGCAA
L-PBE_Mouse	GGCTCGTGTT	GGCTTCCCGG	AAGTGATGCT	GGGAATTCTT	CCTGGTGCAA
L-PBE_Rat	GGCTCGTGTC	GGCTTGCCAG	AAGTCACACT	GGGGATTCTT	CCTGGTGCAA
	401				450
L-PBE_Canine	GAGGAACCCA	GCTTCTCCCC	AGACTCATTT	GAGTTCCTGC	TGCACTTGAC
L-PBE_Human	GAGGAACCCA	GCTTCTCCCC	AGACTCACTG	GAGTTCCTGC	TGCACTTGAC
L-PBE_Mouse	GAGGAACGCA	GCTTCTACCC	AGGGTCGTTG	GAGTTCCTGT	TGCTCTTGAC
L-PBE_Rat	GAGGAACCCA	GCTTCTCCCC	AGGGTCGTTG	GAGTTCCTGT	TGCTCTTGAC
	451				500
L-PBE_Canine	TTAATTACCT	CAGGAAGACA	TGTTTTGGCA	GATGAAGCAC	TCAAGCTGGG
L-PBE_Human	TTAATTACCT	CAGGAAGACG	TATTTTAGCA	GATGAAGCAC	TCAAGCTGGG
L-PBE_Mouse	TTAATTACCT	CAGGAAGACA	TATTTCAACA	GATGAAGCAC	TCAAGCTTGG
L-PBE_Rat	CTAATTACCT	CAGGAAAATA	TCTTTCAGCA	GATGAAGCAC	TCAGGCTTGG
	501				550
L-PBE_Canine	TATCCTAGAT	GAAATTGTGA	ACTCAGACCC	GGTTGAAGAA	GCAATCAAAT
L-PBE_Human	CATTCTAGAT	AAAGTTGTAA	ACTCAGACCC	GGTTGAAGAA	GCAATCAGAT
L-PBE_Mouse	AATTCTGGAT	GTAATTGTAA	AGTCAGACCC	AGTTGAAGAA	GCCATCAAAT
L-PBE_Rat	AATTCTGGAT	GCAGTCGTGA	AGTCAGACCC	AGTTGAAGAA	GCCATCAAAT

Figure 2B

	551				600
L-PBE_Canine	TAGCCCAGAG	AATCTCTGAT	CAATCTCTAG	AATCCCGTAG	ACTCTGCAAC
L-PBE_Human	TTGCTCAGAG	AGTTTCAGAT	CAACCTCTAG	AATCCCGTAG	ACTCTGCAAC
L-PBE_Mouse	TTGCTCAGAC	GGTTATAGGT	AAACCCATAG	AACCCCGCAG	GATCCTAAAC
L-PBE_Rat	TTGCTCAGAA	GATTATAGAT	AAACCCATAG	AACCCCGCAG	GATCTTTAAC
	601				650
L-PBE_Canine	AAGCCAATTC	AGAGCTTGCC	CAACATGGAG	AGTATTTTCA	GTGAAGCCCT
L-PBE_Human	AAGCCAATTC	AGAGCTTGCC	CAACATGGAC	AGCATTTTTA	GTGAGGCCCT
L-PBE_Mouse	AAGCCAGTCC	CAAGCTTGCC	CAACATGGAC	AGTGTTTTTG	CAGAAGCCAT
L-PBE_Rat	AAGCCAGTTC	CAAGCTTGCC	CAACATGGAC	AGTGTTTTTG	CAGAAGCCAT
	651				700
L-PBE_Canine	TTCGAAGATG	CAGAAGCAGC	ATCCCGGGTG	CCTTGCTCCA	GAGACTTGTG
L-PBE_Human	CTTGAAGATG	CGGAGGCAGC	ACCC'TGGGTG	TCTTGACACAG	GAGGCTTGTG
L-PBE_Mouse	TGCCAAGGTA	CGGAAGCAGT	ACCC'TGGCCG	CCTGGCTCCG	GAGACTTGTG
L-PBE_Rat	CGCCAAGGTA	CGAAAAAGT	ACCC'TGGTGT	CCTGGCTCCG	GAGACGTGTG
	701				750
L-PBE_Canine	TCCGTGCAGT	CCAGGCTGCC	GTGCATTGTC	CCTACGAAGT	GGGCATCCAG
L-PBE_Human	TCCGTGCAGT	CCAGGCTGCT	GTGCAGTATC	CCTATGAAGT	GGGCATCAAG
L-PBE_Mouse	TCCGTTTCACT	CCAGGCCTCC	GTGAAGCATC	CATATGAAGT	GGCCATCAAG
L-PBE_Rat	TCCGCTCAAT	CCAGGCCTCT	GTGAAGCATC	CCTACGAAGT	AGGCATCAAG
	751				800
L-PBE_Canine	AAGGAGAAGG	AGCTGTTTAT	GTACCTTCAG	AAATCAGGGC	AGGCTAGAGC
L-PBE_Human	AAGGAGGAGG	AGCTGTTTCT	ATATCTTTTG	CAATCAGGGC	AGGCTAGAGC
L-PBE_Mouse	GAAGAAGCAA	AGCTGTTTAT	GTACCTTCGG	GGGTCGGGGC	AGGCTAGAGC
L-PBE_Rat	GAAGAGGAAA	AGCTGTTTAT	GTACCTCCGG	GCATCCGGGC	AGGCTAAAGC
	801				850
L-PBE_Canine	CCTGCAATAT	GCTTTCTTTG	CAGAGAGGAA	TGCAACTAAG	TGGTCAACTC
L-PBE_Human	CCTGCAATAT	GCTTTCTTCG	CTGAAAAGAA	AGCAAATAAG	TGGTCAACTC
L-PBE_Mouse	CCTGCAGTAC	GCCTTTTTTG	CTGAAAAGTC	TGCAAATAAG	TGGTCAACTC
L-PBE_Rat	CCTACAGTAT	GCCTTCTTTG	CTGAAAAGTC	TGCAAATAAG	TGGTCAACTC
	851				900
L-PBE_Canine	CCTCTGGAGC	ATCCTGGAAA	ACAGCCATAG	CACAGCCCAT	CTCCTCAGTT
L-PBE_Human	CCTCCGGAGC	ATCGTGGAAA	ACAGCATCAG	CGCGGCCGTG	CTCCTCAGTT
L-PBE_Mouse	CCTCAGGAGC	ATCTTGGAAA	ACAGCATCTG	CTCAACCCGT	CTCCTCGGTT
L-PBE_Rat	CCTCAGGAGC	GTCTTGGAAA	ACAGCCTCTG	CTCAACCCGT	CTCCTCAGTT
	901				950
L-PBE_Canine	GGCGTTGTCTG	GCTTGGGAAC	AATGGGCCGA	GGCATTGTG	TTTCTTTTGC
L-PBE_Human	GGTGTGTGTTG	GCTTGGGAAC	AATGGGCCGA	GGCATTGTCA	TTTCTTTTGC
L-PBE_Mouse	GGTGTTCCTTG	GCTTGGGAAC	GATGGGCCGA	GGCATCGCCA	TCTCTTTTGC
L-PBE_Rat	GGCGTTCTTTG	GCTTGGGAAC	GATGGGCCGA	GGCATCGCCA	TTTCTTTTGC
	951				1000
L-PBE_Canine	GAAGGCCAAG	ATCCCAGTGA	TTGCTGTGGA	ATCGGACAAG	AAGCAGCTAG
L-PBE_Human	AAGGGCCAGG	ATTCCGTGTA	TTGGTGTAGA	CTCGGACAAA	AACCAGCTAG
L-PBE_Mouse	AAGGGTGGGG	ATCCCTGTGG	TTGCTGTAGA	GTCAGACCCA	AAGCAGCTAG
L-PBE_Rat	GAGAGTGGGG	ATCTCTGTGG	TTGCTGTGGA	GTCAGACCCA	AAGCAGCTAG
	1001				1050
L-PBE_Canine	AGACTGCTGA	TATGATAATA	ACTACCCTCT	TGGAAAAGGA	AGCATCCAAA
L-PBE_Human	CAACTGCAAA	CAAGATGATA	ACCTCTGTCT	TGGAAAAAGA	AGCCTCCAAA
L-PBE_Mouse	ATACTGCAAA	GAAGATAATA	ACTTCCACCT	TGGAAAAGGA	AGCATCGA..
L-PBE_Rat	ATGCTGCAAA	GAAGATAATC	ACTTTCACCT	TGGAGAAGGA	AGCATCCAGA
	1051				1100
L-PBE_Canine	ATGCAGCGTA	GCAGCCACCC	GTCGTTAGGA	CCAAAACCCA	GGTTAACTAC
L-PBE_Human	ATGCAACAGA	GCGGCCACCC	TTGGTCAGGA	CCAAAACCCA	GGTTAACTTC
L-PBE_MouseAGA	GTCGCCAAGC	TTCAGCAAAA	CCAAAACCTCA	GGTTCTCCTC
L-PBE_Rat	GCGCATCAGA	ACGGCCAAGC	TTCGGCAAAA	CCAAAACCTCA	GGTTCTCCTC

Figure 2C

	1101				1150
L-PBE_Canine	ATCTATGAAG	GAGCTTGGTG	GTGTAGATTT	AGTCATTGAA	GCAGTATTTG
L-PBE_Human	ATCTGTGAAG	GAGCTTGGTG	GTGTAGATTT	AGTCATTGAA	GCAGTATTTG
L-PBE_Mouse	ATCCACAAAG	GAGCTTTTCA	GTGTGGATTT	AGTGATTGAA	GCAGTGTTCG
L-PBE_Rat	ATCCACAAAG	GAACTTTCAA	CTGTGGATTT	GGTGGTTGAA	GCAGTGTTCG
	1151				1200
L-PBE_Canine	AGGAAATTAA	CCTGAAGAAG	AGGGTCTTTG	CTGAACTGTC	GGCTATATGC
L-PBE_Human	AGGAAATGAG	CCTGAAGAAG	CAGGTCTTTG	CTGAACTCTC	AGCTGTGTGC
L-PBE_Mouse	AAGATATGAA	CCTGAAGAAG	AAGGTCTTCG	CTGAACTGTC	AGCCCTGTGC
L-PBE_Rat	AAGACATGAA	CCTGAAGAAA	AAGGTCTTTG	CTGAGCTGTC	AGCCCTGTGC
	1201				1250
L-PBE_Canine	AAGCCAGAAG	CTTTTCTGTG	CACCAATACT	TCAGCCCTAG	ACATTGATGA
L-PBE_Human	AAACCAGAAG	CATTTTTGTG	CACTAATACT	TCAGCCCTGG	ATGTTGATGA
L-PBE_Mouse	AAGCCGGGAG	CCTTTCTGTG	CACCAATACC	TCAGCACTGG	ATGTGGATGA
L-PBE_Rat	AAGCCAGGAG	CCTTTCTGTG	CACCAATACC	TCGGCGCTGA	ACGTGGACGA
	1251				1300
L-PBE_Canine	GATTGCTTCT	TCCACTGATC	GTCCTCACTT	GGTCATTGGC	ACTCACTTCT
L-PBE_Human	GATTGCTTCT	TCCACTGATC	GTCCTCACTT	GGTCATTGGC	ACCCACTTCT
L-PBE_Mouse	CATTGCTTCT	TCCACAGATC	GCCCCAGCT	GGTGATTGGC	ACCCACTTCT
L-PBE_Rat	CATTGCTTCT	TCCACAGATC	GCCCCAGCT	GGTGATTGGC	ACCCACTTCT
	1301				1350
L-PBE_Canine	TCTCACCAGC	TCACGTCATG	AAGTTGTTAG	AGATTATTCC	CAGCCAATAC
L-PBE_Human	TTTCGCCAGC	TCATGTCATG	AAGTTGTTAG	AGGTTATTCC	CAGCCAATAC
L-PBE_Mouse	TCTCCCCAGC	CCACATCATG	AGGTTACTAG	AGGTCATTCC	TAGCCGATAC
L-PBE_Rat	TCTCACCAGC	CCATGTCATG	AGGTTGCTAG	AGGTCATTCC	TAGCCGATAC
	1351				1400
L-PBE_Canine	TCTTCCCCCA	CTACCATTGC	CACAGTTATG	AATTTATCAA	AAAAGATTAA
L-PBE_Human	TCTTCCCCCA	CTACCATTGC	CACAGTTATG	AATTTATCAA	AAAAGATTAA
L-PBE_Mouse	TCTTCCCCCA	CTACCATCGC	CACAGTCATG	AGCTTATCCA	AAAGGATTGG
L-PBE_Rat	TCTTCCCCCA	CTACCATCGC	CACGTTATG	AGCTTGTCCA	AAAAGATCGG
	1401				1450
L-PBE_Canine	AAAAATTGGA	GTAGTTGTAG	GTAAGTGTGTT	TGGATTGTGTT	GGCAATCGAA
L-PBE_Human	AAAGATTGGA	GTCGTTGTAG	GCAACTGTGTT	TGGATTGTGTT	GGGAATCGAA
L-PBE_Mouse	AAAGATTGGA	GTCGTTGTGTT	GTAAGTGTGTT	TGGATTGTGTT	GGGAATCGAA
L-PBE_Rat	AAAGATTGGA	GTAGTGTTGTT	GCAACTGTGTT	TGGATTGTGTT	GGGAATCGGA
	1451				1500
L-PBE_Canine	TGTTGAAGCC	TTATTACAAT	CAGACGTATT	TCTTGTTAGA	AGAAGGCAGT
L-PBE_Human	TGTTGAATCC	TTACTACAAT	CAGGCATATT	TCTTGTTAGA	AGAAGGCAGC
L-PBE_Mouse	TGTTGGCTCC	CTATTACAAC	CAGGGCTATT	TCTTGATAGA	GGAAGGTAGT
L-PBE_Rat	TGTTGGCTCC	CTATTACAAC	CAGGGGTTTT	TCTTGTTAGA	GGAAGGTAGC
	1501				1550
L-PBE_Canine	AGGCCAGAGG	AGATAGATCA	GGTGCTGGAA	GAGTTTGGTT	TCAAAATGGG
L-PBE_Human	AAACCAGAGG	AGGTAGATCA	GGTGCTGGAA	GAGTTTGGTT	TTAAATGGG
L-PBE_Mouse	AAGCCAGAGG	ATGTAGATGG	GGTCTTAGAA	GAGTTTGGTT	TTAGAAATGGG
L-PBE_Rat	AAGCCAGAGG	ATGTAGACGG	GGTCTTAGAA	GAGTTTGGTT	TTAAATGGG
	1551				1600
L-PBE_Canine	ACCTTTTAGA	GTGTCAGATC	TTGCTGGATT	GGATGTGGGT	TGGAAATCTC
L-PBE_Human	ACCTTTTAGA	GTGTCAGATC	TTGCTGGGTT	GGATGTGGGC	TGGAAATCTA
L-PBE_Mouse	ACCTTTCAGG	GTGTCAGACC	TCGCAGGGCT	AGATGTGGGT	TGGAAAGTTC
L-PBE_Rat	ACCTTTCAGA	GTGTCAGACC	TCGCAGGGCT	AGATGTGGGT	TGGAAAATTC
	1601				1650
L-PBE_Canine	GACAGGGGCA	AGGTCTTACT	GGACCTATGG	TGCCTTCAGG	AACTCCTGCC
L-PBE_Human	GAAAGGGGCA	AGGTCTTACT	GGACCTACAT	TGCTTCCAGG	AACTCCTGCC
L-PBE_Mouse	GCAAAGGGCA	AGGCCTTACT	GGACCGTCCT	TACCTCCAGG	AACCCCAACC
L-PBE_Rat	GCAAGGGGCA	AGGCCTTACT	GGACCATCAT	TGCCACCAGG	GACCCCAACC

Figure 2D

	1651				1700
L-PBE_Canine	CGGAAAGCGAG	GCAACAGGAG	ATACTGTCCA	ATTCCTGATC	TGCTCTGTGA
L-PBE_Human	CGAAAAAGGG	GTAATAGGAG	GTACTGCCCA	ATTCCTGATG	TGCTCTGTGA
L-PBE_Mouse	CGAAAGAGGG	GCAATACCAG	GTACTCCCCA	ATTGCTGATA	TGCTCTGTGA
L-PBE_Rat	CGAAAGAGGG	GCAACAGCAG	GTACTCCCCA	CTTGCGGATA	TGCTCTGTGA
	1701				1750
L-PBE_Canine	ATCAGGACGA	TTTGGCCAGA	AGACAGGGAA	AGGTTGGTAC	CAATATGATA
L-PBE_Human	ATTAGGACGA	TTTGGCCAGA	AGACAGGTAA	GGGTTGGTAT	CAATATGACA
L-PBE_Mouse	AGCTGGGCGA	TTTGGTCAGA	AGACAGGTAA	GGGCTGGTAT	CAGTATGACA
L-PBE_Rat	AGCTGGGCGG	TTTGGTCAGA	AGACAGGTAA	AGGCTGGTAT	CAGTATGACA
	1751				1800
L-PBE_Canine	AGCCATTGGG	TAGGATTCAC	AAACCTGACC	CCTGGCTTTC	TGAATTCTCTG
L-PBE_Human	AGCCATTGGG	TAGGATTCAC	AAACCTGATC	CCTGGCTTTC	CACATTCCCTA
L-PBE_Mouse	AGCCACTGGG	TCGCATCCAC	AAACCTGATC	CCTGGCTTTC	TGAGTTCTCTG
L-PBE_Rat	AGCCACTGGG	TCGCATCCAC	AAACCTGATC	CCTGGCTTTC	TACGTTCTCTG
	1801				1850
L-PBE_Canine	TCACAGTACA	GAAAAACCTA	TCACATTGAG	CCACGTATCA	TTAGCCAGGA
L-PBE_Human	TCACGGTATA	GAAAAACCCA	TCACATTGAA	CCACGTACCA	TTAGCCAGGA
L-PBE_Mouse	TCACAGTATA	GAGAAACCCA	TCACATCAAG	CAGCGCTCCA	TCAGCAAGGA
L-PBE_Rat	TCACAAATATA	GAGAGGTTCA	CCACATCGAG	CAGCGCACCA	TCAGCAAGGA
	1851				1900
L-PBE_Canine	TGAGATCCTT	GAGCGTTGCT	TATATTCACT	TATCAATGAA	GCATTCCGTA
L-PBE_Human	TGAGATCCTT	GAACGCTGCT	TATATTCACT	TATCAATGAA	GCATTCCGTA
L-PBE_Mouse	GGAAATCCTG	GAGCGTTGCT	TATATTCCTT	TATCAACGAG	GCATTCCGCA
L-PBE_Rat	GGAGATCCTG	GAGCGTTGCT	TATATTCCTT	CATCAATGAG	GCGTTCCGCA
	1901				1950
L-PBE_Canine	TCTTGGGAGA	AGGGATGGCT	GCTGATCCAG	AGCACATTGA	TGTTGTCTAT
L-PBE_Human	TCTTGGGAGA	AGGGATAGCT	GCTAGCCCAG	AGCACATTGA	TGTTGTCTAT
L-PBE_Mouse	TCTTGGAGGA	GGGGATGGCC	GCTAGCCCAG	AGCACATTGA	TGTCATCTAC
L-PBE_Rat	TCTTGGAGGA	GGGGATGGCT	GCTCGCCCAG	AGCACATTGA	TGTCATCTAC
	1951				2000
L-PBE_Canine	TTACACGGGT	ACGGATGGCC	AAGGCATAGG	GGTGGACCCA	TGTTCTATGC
L-PBE_Human	TTACATGGAT	ATGGATGCGC	AAGGCACAAG	GGCGGGCCCA	TGTTCTATGC
L-PBE_Mouse	TTGCATGGGT	ATGGGTGGCC	AAGGCACGTG	GGTGGGCCCC	TGTACTATGC
L-PBE_Rat	TTGCACGGGT	ACGGGTGGCC	AAGGCACAAG	GGCGGGCCCA	TGTTCTATGC
	2001				2050
L-PBE_Canine	CTCCACAGTT	GGGTTGCCCA	CAGTGCTAGA	GAAGTTGCAA	AAATATTACA
L-PBE_Human	TTCCACAGTT	GGGTTGCCCA	CAGTTCTAGA	GAAATTGCAG	AAATATTACA
L-PBE_Mouse	TGCCTCAGTT	GGGCTGCCCA	CAGTTCTAGA	GAAATTGCAG	AAATATTACA
L-PBE_Rat	TGCCTCAGTT	GGGTTGCCCA	CAGTTCTAGA	GAAACTGCAG	AAATATTACA
	2051				2100
L-PBE_Canine	GGCAGAATCC	TGATATTCCA	CAACTAGAGC	CTTGTGACTA	TCTGAAAAAA
L-PBE_Human	GGCAGAATCC	TGATATTCCC	CAACTGGAGC	CAAGTGACTA	TCTAAAAAAA
L-PBE_Mouse	GACAGAATCC	TGACATCCCC	CAGCTGGAGC	CCAGTGACTA	CCTGAGGAGG
L-PBE_Rat	GGCAGAATCC	TGACATCCCC	CAGCTGGAGC	CCAGTGACTA	CCTCAGAAGG
	2101				2150
L-PBE_Canine	TTGGCTTCCC	TGGGCAACCC	GCCTCTGAAA	GAATGGCAAA	GCTTGGCAGG
L-PBE_Human	CTGGCTTCTC	AGGGAAACCC	TCCCCTGAAA	GAATGGCAAA	GCTTGGCAGG
L-PBE_Mouse	CTGGTTGCCC	AGGGAAAGCCC	TCCTCTGAAA	GAATGGCAAA	GCTTGGCAGG
L-PBE_Rat	CTGGTAGCCC	AGGGAAAGCCC	TCCTCTGAAG	GAATGGCAAA	GCTTGGCAGG
	2151		2169		
L-PBE_Canine	CTCCCCTAGC	AGTAAATTG			
L-PBE_Human	CTCCCCTAGC	AGTAAATTG			
L-PBE_Mouse	ACCCCATAGC	AGCAAACCTG			
L-PBE_Rat	GCCCCACGGC	AGCAAACCTG			